

SECTION 1072 -- REFLECTORS

1072.01 -- Description

Authorized reflectors are described in this Section.

1072.02 -- Material Characteristics

1. The reflector shall consist of a round retroreflecting lens permanently bonded and hermetically sealed to its back.
2. The back may be either acrylic plastic or metal foil; however, the foil back reflectors must have a minimum 0.018 inch thick aluminum housing.
3. The aluminum housing is not required with the acrylic plastic back.
4. The reflector shall have a mounting hole in the center with a diameter of not less than 3/16 inch.
5. The reflector shall have a visible reflective area when mounted of not less than 6.5 square inches.
6. The lens shall consist of a smooth front surface free from projections or indentations other than the central mounting hole and manufacturer's identification.
7. The rear surface shall be a prismatic configuration such that it will cause total internal reflection of light.
8. The prism arrangement in the lens shall be such that the lens will have a segmented appearance with at least 2 and not more than 6 segments in each unit.
9. The unit shall be permanently sealed against dust, water, and water vapor.
10. Fasteners for delineators shall be at least 3/16 inch diameter pan or round head machine screws (length shown in the plans) conforming to the requirements of ASTM F 568.
11. The reflectors shall meet specific intensity requirements shown in Table 1072.01.

Table 1072.01

Reflector Requirements					
Observation Angle, (degrees)	Entrance Angle, (degrees)	Minimum Specific Intensity (Candlepower per foot-candle)			
		White	Yellow	Red	Blue
0.1	0	120	72	30	12
0.1	20	48	29	12	4.8
0.33	0	20	12	5	2.0
0.33	20	8	5	2	0.8

1072.03 -- Acceptance Requirements

1. Acceptable reflectors are shown on the NDR Approved Products List.
2. Fasteners for delineators shall be sample and tested in accordance with the requirements shown in the NDR *Materials Sampling Guide*.